SIEMENS

Building Technologies

Access Control
SiPass
products & accessories
catalogue 2005 - 2006

Siemens: one brand, one partner - one system - for all your security & fire safety requirements

Access Control CCTV Fire Safety Intruder Detection

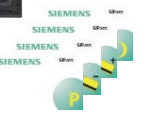
Every day small sized applications in "standalone" operation
- Small convenience store or petrol station shop

Access Control products for this example:

SiPass standalone - an ideal solution for controlling a single door with controller and reader in one device

Programming device for e.g. deleting card numbers of lost cards

Master programming cards



SiPass Proximity key tags

Medium sized applications with local area networking (LAN)
- Large supermarket with warehouse

Access Control products for this example:

SiPass networked - simple, flexible and secure access control for small to medium-sized buildings

Dual reader controller and SiPass Software ...

... using the 13.56 MHz card technology with Mifare cards

... using the 125 kHz card technology with SiPass cards

High risk applications with wide area networking (WAN)
- Commercial bank

Access Control products for this example:

SiPass integrated - a comprehensive access control solution for demanding organisations of any size

Adavanced Central Controller not only for controlling doors, but also for elevators and more

Biometric finger tip readers for higher security access control application

Various software extensions for integration of other applications, e.g. HR, visitor management etc

table of contents

Page

standalone 1
kits 1
networked 4
kits overview 3
kits 4
controllers 8
communication modules 9
integrated 11
controllers 11
door modules 12
signal modules 13
core software 15
software extensions 17
accessories 19
biometrics 21
kits 21
communication modules 22
accessories 22
readers overview 24
card readers 25
standalone 25
proximity / vicinity 13.56 MHz 25
proximity 125 kHz 26
biometrics 28
accessories 28
cards & transponders 29
proximity / vicinity 13.56 MHz 29
proximity 125 kHz 29
system diagrams 30
«SiPass standalone» overview 30
«SiPass networked» one door mode with finger tip reader 30
«SiPass networked» one door mode with and without keypads . . 31
«SiPass networked» two door mode with keypad 32
«SiPass networked» two door mode without keypads 32
«SiPass networked» two door mode with and without keypads . . 32
«SiPass integrated» system overview 33
index 34

©2006 Siemens Building Technologies — Data subject to change without notice

SIEMENS

SiPass offers a full range of scalable access control systems, from a single door application «SiPass standalone», up to a maximum for up to 16 doors in «SiPass networked» right through to large installations with special requirements and almost unlimited number of doors in «SiPass integrated». Flexibility is fundamental to the SiPass range. Starting with single system, as a business grows, so the access control system can expand, utilising the existing hardware components.

SiPass standalone

An ideal solution for controlling **a single door**.

SiPass networked

A system with a maximum of **8 controllers and 16 readers**.

SiPass integrated

Virtually **unlimited number of readers and controllers** combined with integration of DVRs, elevators and more.

SIEMENS

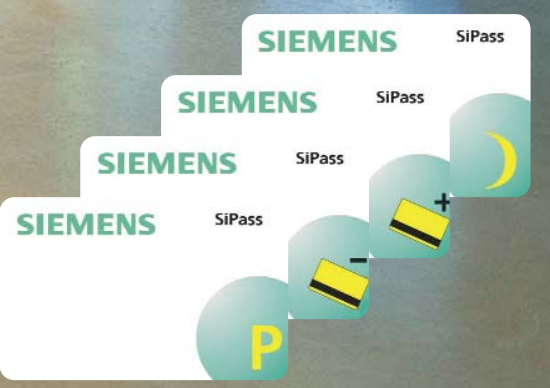
Programming device for e.g. deleting card numbers of lost cards

Controller and reader in one device

SiPass standalone reader...

...an ideal solution for controlling a single door

SiPass Proximity key tags



Master programming cards

Type	Description / Technical data	Order No.

kits

AKS3110

Single door kit

6FL7048-8CB10

The AKS3110 is part of the «SiPass standalone» family and is an integrated access control system for a single door and a maximum of 500 cards. It is a controller and a reader in one device and it only needs a stabilised power supply, plus a door latch for operation. Furthermore, it can operate in both “day” and “night” mode. The installation of this device is quick and simple and the standalone system means that no networking is necessary, however it is possible. Lost cards or key tags are easily deleted in the system, ensuring no unauthorised entry. This is an ideal solution for controlling a single door and requires no PC or software for setup. When upgrading to the «SiPass networked» and «SiPass integrated» systems, the reader can be used as a standard reader.

Kit includes	1 x Single Door Reader (ACS3110) 4 x Master programming cards 10 x Proximity key tags 1 x User Manual
Card technology	125 kHz
Card read distance	5 cm (approx.)
Number of cards/key tags	500 in total for the system
Bus operation	RS485 with SiPass reader protocol up to 1000 m
Buzzer	Read badge / Read Master / Error
Door latch relay output	Potential free, 30 VDC, 1 A
Night mode input	Switch clock or key switch
Alarm outputs	1 x night operation (open collector 24 VDC, 50 mA) 1 x tamper (open collector 24 VDC, 50 mA)
Operating voltage	5 ~ 15 VDC (PSU not included)
Current consumption	20 ~ 50 mA (without door latch)
Cable	AWG26, 14 wires, 3 m
Operating temperature	-15 ~ +50 °C
Protection rating	IP 65
Dimensions (W x H x D)	41 x 68 x 15 mm
Colour	Black
Approval	CE
Additional components required for operation:	12 VDC power supply (see 2GF1800-8BE) Electrical lock Optional request-to-exit button

Optional component:

AAP3110	Programming device for ACS3110 reader

Expansion components:

ACS3110	Single Door Reader
ABR5100-PR	10 x SiPass Card
ABR5100-BL	10 x Printable SiPass Card
ABR5100-TG	10 x SiPass Key tag

©2006 Siemens Building Technologies — Data subject to change without notice

SIEMENS

AKNxxxx-MX kit, with or without keypad
using the 13.56 MHz card technology

SiPass

networked...

...simple, flexible and secure

AKNxxxx-CP kit, with or without keypad
using the 125 KHz card technology

A system with a total of 16 readers
and 8 controllers is possible.

networked kits overview

	AKN 4100	AKN 4200	AKN 4110-CP	AKN 4210-CP	AKN 4120-CP	AKN 4220-CP	AKN 4110-MX	AKN 4210-MX	AKN 4120-MX	AKN 4220-MX
Dual reader controller	•	•	•	•	•	•	•	•	•	•
RS232/RS485 converter AAC3031	•		•		•		•		•	
Software with user manual	•		•		•		•		•	
Proximity reader without keypad AR6331-CP			•	•						
Proximity reader with keypad AR6332-CP					•	•				
Multifunctional reader without keypad AR6181-MX							•	•		
Multifunctional reader with keypad AR6182-MX									•	•
20 Proximity cards			•		•					
20 Mifare cards							•		•	

Please note that kits do not include:
- electrical locks
- request-to-exit devices (refer to Siemens Intrusion Catalogue)
- 12V 7.2 Ah batteries (refer to Siemens Intrusion Catalogue)

©2006 Siemens Building Technologies — Data subject to change without notice

Type	Description / Technical data	Order No.

kits

AKN4110-CP **Dual reader controller starter kit with 2 readers without keypad** **6FL7048-8BA02**

The AKN4110-CP is part of the «SiPass networked» family and is a networked access control system with up to 8 dual reader controllers, each controller connecting up to two readers, for a total of 16 readers for the system. This starter kit includes two proximity card readers using the 125 kHz technology to read the unique serial number of the SiPass cards. The included system software enables a PC to configure and maintain up to 500 cards over the network. «SiPass networked» can easily be upgraded to «SiPass integrated» when needed.

Kit includes	1 x Dual Reader Controller 2 x Readers without keypad 1 x RS232/RS485 converter 1 x SiPass Software CD 20 x Printed SiPass cards 1 x User Manual

Dual Reader Controller:

Number of cards	500 in total for the system
Off-line events	500
Time schedules	12, plus never/always
Holidays	19
Maximum number of Controllers	8 on Bus
Maximum number of Readers	16 for the system
Door configuration	1 door with in/out readers 2 doors with in readers
Card	On time schedule
Door release	On time schedule
Daily code	On time schedule
System Data Backup/Restore	Yes
Cardholders Import/Export	Yes
Events	Available as daily text file
Inputs	2 x request-to-exit devices 2 x door contacts 1 x integrated tamper
Outputs or electrical locks	2 x relays, 30 VDC, 2 A
Tamper	Integrated
Peripheral supply	12 VDC, 1 A
Power supply	100 ~ 240 VAC, 0.7 A
Power consumption	25 VA
Battery management	On board
Protection rating	IP 20
Dimensions (W x H x D)	200 x 300 x 95 mm
Housing	Steel
Colour	Light grey (RAL7035)
Approval	CE

Reader AR6331-CP:

Card technology	125 kHz
Operating voltage	12 VDC (±20%)
Current consumption	80 mA (approx.)
Protection rating	IP 65
Dimensions (W x H x D)	48 x 147 x 30 mm
Housing	PC / ABS plastic
Colour	Silver (RAL9006)
Approval	CE

Expansion Components:

AKN4210-CP	Extension kit (reader without keypad)
AKN4220-CP	Extension kit (reader with keypad)
ABR5100-PR	10 x SiPass Card
ABR5100-BL	10 x Printable SiPass Card
ABR5100-TG	10 x SiPass Key tag

©2006 Siemens Building Technologies — Data subject to change without notice

Type	Description / Technical data	Order No.	
AKN4210-CP	**Dual reader controller extension kit with 2 readers w/o keypad** As AKN4110-CP for technical details, however this is an extension kit that can be connected to either the AKN4110-CP or AKN4120-CP starter kits, but without the RS232/RS485 converter, SiPass cards or software. By adding extension kits to the starter kit, a «SiPass networked» system of a total of 16 readers and 8 dual reader controllers is possible. Extension kit includes: 1 x Dual Reader Controller; 2 x Readers without keypad Kit compatibility: AKN4110-CP; AKN4120-CP	**6FL7048-8BB00**	
AKN4120-CP	**Dual reader controller starter kit with 2 readers with keypad** The AKN4120-CP is a part of the «SiPass networked» family and is a networked access control system with up to 8 dual reader controllers, each controller connecting up to two readers, for a total of 16 readers for the system. The included system software enables a PC to configure and maintain up to 500 cards over the network. This flexible system allows «SiPass networked» to be easily upgraded to «SiPass integrated» when required. A reader with keypad enables a combination of card reading technology with PIN-code, e.g. “Card and PIN”, “PIN only” or other user defined combinations. Kit includes: 1 x Dual Reader Controller; 2 x Readers with keypad; 1 x RS232/RS485 converter; 1 x SiPass Software CD; 20 x Printed SiPass cards; 1 x User Manual As AKN4110-CP for technical details, but includes AR6332-CP reader with keypad. Keypad: Keys 0-9, C,E Card and/or pin mode: On time schedule Expansion Components: AKN4210-CP Extension kit (reader without keypad) AKN4220-CP Extension kit (reader with keypad) ABR5100-PR 10 x SiPass Card ABR5100-BL 10 x Printable SiPass Card ABR5100-TG 10 x SiPass Key tag	**6FL7048-8BC02**	
AKN4220-CP	**Dual reader controller Extension Kit with 2 readers with keypad** As AKN4120-CP for technical details, however this is an extension kit that can be connected to either the AKN4110-CP or AKN4120-CP starter kits, but without the RS232/RS485 converter, SiPass cards or software. By adding extension kits to the starter kit, a «SiPass networked» system of a total of 16 readers and 8 dual reader controllers is possible. Extension kit includes: 1 x Dual Reader Controller; 2 x Readers with keypad Kit compatibility: AKN4110-CP; AKN4120-CP	**6FL7048-8BD00**	

©2006 Siemens Building Technologies — Data subject to change without notice

Type	Description / Technical data	Order No.
AKN4110-MX	**Dual reader controller starter kit with 2 readers without keypad** The AKN4110-MX is part of the «SiPass networked» family and is a networked access control system with up to 8 dual reader controllers, each controller connecting up to two readers, for a total of 16 readers for the system. Starter kit includes two multi technology card readers using the 13.56 MHz technology to read the unique serial number of e.g. Mifare cards. The included system software enables a PC to configure and maintain up to 500 cards over the network. This flexible system allows «SiPass networked» to be easily upgraded to «SiPass integrated» when required.	**6FL7048-8EA02**

Kit Includes	1 x Dual Reader Controller 2 x Readers without keypad 1 x RS232/RS485 Converter 1 x SiPass Software CD 20 x Printed Mifare Cards 1 x User Manual
Dual Reader Controller:	
Number of cards	500 in total for the system
Off-line events	500
Time schedules	12, plus never/always
Holidays	19
Maximum number of Controllers	8 on Bus
Maximum number of Readers	16 for the system
Door configuration	1 door with in/out readers 2 doors with in readers
Card	On time schedule
Door release	On time schedule
Daily code	On time schedule
System Data Backup/Restore	Yes
Cardholders Import/Export	Yes
Events	Available as daily text file
Inputs	2 x request-to-exit devices 2 x door contacts 1 x integrated tamper
Outputs or electrical locks	2 x relays, 30 VDC, 2 A
Tamper	Integrated
Peripheral supply	12 VDC, 1 A
Power supply	100 ~ 240 VAC, 0.7 A
Power consumption	25 VA
Battery management	On board
Protection rating	IP 20
Dimensions (W x H x D)	200 x 300 x 95 mm
Housing	Steel
Colour	Light grey (RAL7035)
Approval	CE
Reader AR6181-MX:	
Card technology	13.56 MHz
Operating voltage	12 ~ 24 VDC/AC (±15%)
Power consumption	Max. 3 W
Protection rating	IP 65
Dimensions (W x H x D)	85.5 x 91 x 40 mm (with frame) 85.5 x 91 x 23 mm (without frame)
Housing	PC / ABS plastic
Colour	Silver (RAL9006)
Approval	CE, FCC

Expansion Components:

AKN4210-MX	Extension kit (reader without keypad)
AKN4220-MX	Extension kit (reader with keypad)
ABP5100-PR	10 x Mifare Card
ABP5100-BL	10 x Printable Mifare Card

©2006 Siemens Building Technologies — Data subject to change without notice

Type	Description / Technical data	Order No.	
AKN4210-MX	**Dual reader controller extension kit with 2 readers w/o keypad** As AKN4110-MX for technical details, however this is an extension kit that can be connected to either the AKN4110-MX or AKN4120-MX starter kits, but without the RS232/RS485 converter, SiPass cards or software. By adding extension kits to the starter kit, a «SiPass networked» system of a total of 16 readers and 8 dual reader controllers is possible. Extension kit includes: 1 x Dual Reader Controller; 2 x Readers without keypad Kit compatibility: AKN4110-MX; AKN4120-MX	**6FL7048-8EB00**	
AKN4120-MX	**Dual reader controller starter kit with 2 readers with keypad** The AKN4120-MX is a part of the «SiPass networked» family and is a networked access control system with up to 8 dual reader controllers, each controller connecting up to two readers, for a total of 16 readers for the system. The included system software enables a PC to configure and maintain up to 500 cards over the network. This flexible system allows «SiPass networked» to be easily upgraded to «SiPass integrated» when required. A reader with keypad enables a combination of card reading technology with PIN-code, e.g. “Card and PIN”, “PIN only” or other user defined combinations. Kit includes: 1 x Dual Reader Controller; 2 x Readers with keypad; 1 x RS232/RS485 converter; 1 x SiPass Software CD; 20 x Printed Mifare cards; 1 x User Manual As AKN4110-MX for technical details, but includes AR6182-MX card reader with keypad. Keypad: Keys 0-9, C,E Card and/or pin mode: On time schedule Expansion Components: AKN4210-MX Extension kit (reader w/o keypad) AKN4220-MX Extension kit (reader with keypad) ABP5100-PR 10 x Mifare Card ABP5100-BL 10 x Printable Mifare Card	**6FL7048-8EC02**	
AKN4220-MX	**Dual reader controller extension kit with 2 readers with keypad** As AKN4120-MX for technical details, however this is an extension kit that can be connected to either the AKN4110-MX or AKN4120-MX starter kits, but without the RS232/RS485 converter, SiPass cards or software. By adding extension kits to the starter kit, a «SiPass networked» system of a total of 16 readers and 8 dual reader controllers is possible. Extension kit includes: 1 x Dual Reader Controller; 2 x Readers without keypad Kit compatibility: AKN4110-MX; AKN4120-MX	**6FL7048-8ED00**	

©2006 Siemens Building Technologies — Data subject to change without notice

Type	Description / Technical data	Order No.

controllers

AKN4100 **Dual reader controller starter kit without reader** **6FL7048-8FA01**

The AKN4110 is part of the «SiPass networked» family and is a networked access control system with up to 8 dual reader controllers, each controller connecting up to two readers, for a total of 16 readers for the system. The kit includes a dual reader controller, control software and an RS232 to RS485 converter to connect a PC to the RS485 network for managing the cards (cards and readers are not included in this kit). This kit is suitable for adding other Siemens serial readers, and most 3rd party readers using Wiegand connectivity (please ask for compatibility).

Kit includes	1 x Dual Reader Controller 1 x RS232/RS485 Converter 1 x SiPass Software CD 1 x User Manual

Dual Reader Controller:

Number of cards	500 in total for the system
Off-line events	500
Time schedules	12, plus never/always
Holidays	19
Maximum number of Controllers	8 on Bus
Maximum number of Readers	16 for the system
Door configuration	1 door with in/out readers 2 doors with in readers
Card	On time schedule
Door release	On time schedule
Daily code	On time schedule
System Data Backup/Restore	Yes
Cardholders Import/Export	Yes
Events	Available as daily text file
Inputs	2 x request-to-exit devices 2 x door contacts 1 x integrated tamper
Outputs or electrical locks	2 x relays, 30 VDC, 2A
Tamper	Integrated
Peripheral supply	12 VDC, 1 A
Power supply	100 ~ 240 VAC, 0.7 A
Power consumption	25 VA
Battery management	On board
Protection rating	IP 20
Dimensions (W x H x D)	200 x 300 x 95 mm
Housing	Steel
Colour	Light grey (RAL7035)
Approval	CE

Expansion Components:

AKN4200	Up to 7 extension kits.

AKN4200 **Dual reader controller extension kit without reader** **6FL7048-8FA02**

As AKN4100 for technical details, but without RS232/RS485 converter or software.

Extension kit includes	1 x Dual Reader Controller

©2006 Siemens Building Technologies — Data subject to change without notice

Type	Description / Technical data	Order No.

communication modules

AAC3031

RS232/RS485 Converter

6FL7820-8GA01

This converter is used to connect the RS485 network of «SiPass networked» to the RS232 port of a PC. It is also used for the configuration of the dual reader interface and input/output of «SiPass integrated». The converter will be delivered with a serial cable and a power supply.

Delivered with	1 x RS232/RS485 Converter 1 x Power supply 9 VDC 1 x Serial extension cable
RS232/RS485 Converter:	
Power Supply	8 ~ 18 VDC (via female connector or terminal)
Current consumption	Max. 110 mA
RS232 connector	9-pin, Sub-D female
Terminal connectors	RS485 (A, B, GND) Power supply (+9 VDC, GND)
Operating temperature	0 ~ +50 °C
Protection rating	IP 20
Dimensions (W x H x D)	125 x 40 x 67 mm
Colour top	Light Grey (RAL7035)
Colour base	Grey (RAL7038)
Approval	CE
Power supply:	
Output voltage	9 VDC
Output current	680 mA
Serial Extension cable:	
Connectors	1 x 9-pin, Sub-D female 1 x 9-pin, Sub-D male
Length	1,5 m

©2006 Siemens Building Technologies — Data subject to change without notice

SIEMENS
SiPass
integrated
system...
...virtually unlimited numbers of readers and controllers combined with integration of DVRs, elevators and more...

Type	Description / Technical data	Order No.

controllers

AC5100

Advanced central controller, 24 VDC

6FL7820-8BA10

The AC5100 is part of the «SiPass integrated» system - the size and expansion capability of «SiPass integrated» is virtually unlimited for the total number of readers and controllers that can operate on this system. This high performance access central controller is ideal for enterprise solutions. The AC5100 is the interface between the PC and the field level devices (ADD5100, AFI5100, AFO5100), for example receiving cardholder information from a connected reader interface module when each access attempt is made. It then verifies this information and if the appropriate privileges have been assigned to the cardholder, the AC5100 permits the door to be opened.

Operating voltage	24 VDC (-10 ~ 20%)
Power consumption	10 W
Indicators	LEDs
Building Level Network (BLN) communication interface	10/100 MB Ethernet (RJ45)
Field Level Network (FLN) communication interface	4 x RS485
Diagnostic/ Parameterization	RS232 (RxD, TxD, GND, RJ12)
Alarm input	1 x Tamper Input (internally supplied, unsupervised)
Alarm output	1 x Alarm output (open-collector 12 VDC, 100 mA)
Dimensions (H x W x D)	291 x 246 x 98 mm
Operating Temperature	0 ~ 50 °C
Approval	CE, UL294, C-Tick
Additional components required for installation:	ACK5100 Parameterization cable

AC5160

Integrated controller kit

6FL7820-8BA16

The AC5160 is part of the «SiPass integrated» system - the size and expansion capability of «SiPass integrated» is virtually unlimited for the total number of readers and controllers that can operate on this system. The AC5160 integrated controller kit contains all relevant basic components in a wall mount housing to control 4 readers for the «SiPass integrated» system. As standard, it is equipped with one advanced central controller, two dual reader interfaces and one power supply. There is additional space inside the housing for quick and easy installation of further SiPass components to control a maximum total of 12 readers from this one controller.

AC5160 includes	1 x Advanced Central Controller (AC5100) 2 x Dual Reader Interface modules (ADD5100) 1 x Power supply 1 x Enclosure
Housing can contain up to	1 x AC5100 1 x AFI5100 or AFO5100 6 x ADD5100 2 x Power packs 2 x Batteries 12 V, 25 Ah
Power supply	230 VAC (-15 ~ +10%)
Internal power supply	24 VDC
Power consumption	5 A per 150 W (including battery charging)
Operating temperature	-10 ~ +55 °C
Protection rating	IP 30
Dimensions (W x H x D)	500 x 750 x 200 mm
Housing	Steel
Approval	CE
Additional components required for installation	ACK5100 Parameterization cable AAC3031 RS232/RS485 converter

©2006 Siemens Building Technologies — Data subject to change without notice

door modules

ADD5100 — **Dual reader interface including base plate, 24 VDC** — **6FL7820-8CA10**

The ADD5100 is the interface between the card reader and the advanced central controller (for up to 2 card readers). When a cardholder presents the access card at an entry or exit reader the ADD5100 reader interface interprets the encoded information and sends this data to the advanced central controller (AC5100). The controller then checks the validity of the cardholder, and if the appropriate permissions have been assigned, the controller then sends a message back to the reader interface allowing it to unlock the door and provide passage. It can also report the status of the door being locked or unlocked at any time.

Power Supply	12 ~ 32 VDC (±20%)
Power consumption	25 W
Field bus	RS485
Readers	2 x RS485 or 2 x Wiegand
Inputs (internally or externally supplied)	1 x REX-Button 1 x Door contact 3 x Auxiliary
Outputs relays	1 x Door opener (30 VDC, 10 A) 1 x Auxiliary (30 VDC, 10 A)
Auxiliary power supply	12 VDC, 1 A
Dimensions (W x H x D)	125 x 125 x 34 mm
Approval	CE, UL294, C-Tick
Additional components required for installation:	AAC3031 RS232/RS485 converter

ADD5160 — **Dual reader interface module in weatherproof housing** — **6FL7820-8CA16**

As ADD5100 for description and technical details, except supplied in a weatherproof housing.

ADD5160 includes	1 x Dual Reader Interface (ADD5100) with weatherproof housing
Protection rating	IP66
Dimensions (W x H x D)	180 x 180 x 60 mm
Housing:	ABS plastic
Approval	CE
Additional components required for installation:	AAC3031 RS232/RS485 converter

©2006 Siemens Building Technologies — Data subject to change without notice

Type	Description / Technical data	Order No.

signal modules

AFI5100

Input point module including base plate, 12/24 VDC

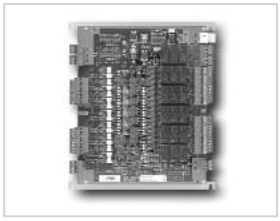
6FL7820-8CB10

The AFI5100 is a programmable input controller used as part of a «SiPass integrated» access control system. It provides a local interface between the Advanced Central Controller (AC5100) and the devices used to monitor a facility, for example infrared detectors. When an input device that is connected to an AFI5100 changes state, the AFI5100 registers the change of state and forwards this data to the AC5100. After checking the validity of the data, the AC5100 sends the message to the SiPass Server central controlling software, so the Alarm Handling mechanism can respond appropriately.

Power supply	12/24 VDC (-15 ~ +10%)
Power consumption	50 W
Field bus	RS485
Inputs	32 x internally supplied (supervised or unsupervised) 1 x Tamper (internally supplied) 1 x Fire override (potential-free or internally supplied)
Outputs	4 x Auxiliary relays (30 VDC, 10 A) 1 x Alarm output (open-collector 12VDC, 200 mA) 1 x Fire override relay (30 VDC, 10 A)
LED indicators	Power, Activity, Communication Inputs, Outputs Peripheral supplies Fire override
Firmware	Flash upgradeable
Operating temperature	0 ~ +50 °C
Dimensions (W x H x D)	250 x 287 x 30 mm
Approval	CE, UL294, C-Tick
Additional components required for installation:	AAC3031 RS232/RS485 converter

©2006 Siemens Building Technologies — Data subject to change without notice

Type	Description / Technical data	Order No.
AFO5100	**Output point module including base plate, 12/24 VDC** The AFO5100 is an advanced, multi-purpose module that provides an interface between field level input devices (such as card readers) and output devices (such as override mechanisms) to the Advanced Central Controller (AC5100). It is designed for use in elevators that are integrated within an access control environment. A single AFO5100 can provide access control for up to 16 floors and multiple AFO5100 modules can be combined in an elevator car to provide access control for further floors. The Fire Override mechanism allows floors to be made automatically accessible during an emergency situation - this is a critical feature for sites where legislation requires strict emergency responses.	**6FL7820-8CC10**



Power supply	12/24 VDC (-15 ~ +10%)
Power consumption	50 W
Field bus	RS485
Inputs	16 x Isolated (externally supplied & unsupervised) 1 x Tamper (internally supplied) 2 x Fire Override (potential-free or internally supplied)
Outputs	16 x Relays (30 VDC, 10 A) 1 x Tamper (open-collector 12VDC, 100 mA) 2 x Fire override relays (30 VDC, 10 A)
LED indicators	Power, Activity, Communication Inputs, Outputs Peripheral supplies, Fire over-ride
Firmware	Flash upgradeable
Operating temperature	0 ~ +50 °C
Dimensions (W x H x D)	216 x 267 x 30 mm
Approval	CE, UL294, C-Tick
Additional components required for installation	AAC3031 RS232/RS485 converter

©2006 Siemens Building Technologies — Data subject to change without notice

Type	Description / Technical data	Order No.

core software

ASL5000-SE **SiPass software standard edition license** **6FL7820-8AA10**

Access control is one of today's most complex yet important business operations, which helps to increase the security of business premises, valuable resources and staff. The SiPass software standard edition is a Windows based client/server system with a wide range of access control features. Its modular architecture allows the installation from basic up to medium complexity systems.

The software is easy to install and simple to administer via the comfortable user interface, allowing the user to control access into and around buildings by controlling access to doors, while providing high security through advanced alarm management.

The software displays detailed information concerning events that occur, in an “Active Audit Trail” window, updating the user of activity at the business premises in real-time. When using the optional software modules such, as Photo ID, Image Verification or Guard Tour, it is possible to tailor all access control requirements, depending upon the user-requirements.

SiPass software standard edition enables the following features when used with «SiPass integrated» hardware components:

- Anti-Passback
- Interface to Siemens SIMATRIX matrix switcher
- Interface to Siemens SISTORE digital video recorders
- Support for third party cardholder data import and export via a dedicated tool
- AES Encryption
- Automatic and event triggered reporting
- 3 wrong PIN modes
- Dynamic graphical status screen
- Time scheduling
- Instructional alarm response windows
- Programmable holidays
- Individual / group cardholder access
- Manual system override capabilities
- Real-time event and message logging
- Simple colour-coded audit trail log
- Intelligent built-in report generator
- Full system archiving and restore
- Powerful client / server architecture
- Online operator journal
- Comprehensive online help system

Standard edition license includes:

- 24 doors
- 1000 cards
- 1 SiPass Server
- 1 SiPass Workstation

The ASL5000-SE is a software license only, the SiPass software CD has to be ordered separately - see ASB5000-xx.

To order the ASL5000-SE or any of the SiPass core software, it is required to first complete a software license order form - please contact your SiPass supplier for further information.

©2006 Siemens Building Technologies — Data subject to change without notice

Type	Description / Technical data	Order No.
ASB5000-EN	**SiPass integrated software CD (English)** This CD-ROM contains: SiPass integrated software and documentation SiPass integrated firmware and installation tool SiPass hardware documentation Microsoft MSDE database The installation of the firmware on the hardware requires: AAC3031 for the door modules and signal modules ACK5100 for the AC5100 controller	**6FL7820-8FD10**
ASB5000-DE	**SiPass integrated software CD (German)** As ASB5000-EN for technical details, except in German language.	**6FL7820-8FD11**
ASB5000-FR	**SiPass integrated software CD (French)** As ASB5000-EN for technical details, except in French language.	**6FL7820-8FD12**
ASB5000-NL	**SiPass integrated software CD (Dutch)** As ASB5000-EN for technical details, except in Dutch language.	**6FL7820-8FD13**
ASB5000-ES	**SiPass integrated software CD (Spanish)** As ASB5000-EN for technical details, except in Spanish language.	**6FL7820-8FD14**
ASB5000-PL	**SiPass integrated software CD (Polish)** As ASB5000-EN for technical details, except in Polish language.	**6FL7820-8FD15**

©2006 Siemens Building Technologies — Data subject to change without notice

Type	Description / Technical data	Order No.
	software extensions To order the SiPass software extensions, it is required to first complete a software license order form - please contact your SiPass supplier for further information.	
ASE5100-BA	**Database extension license for 1000 cards** The ASE5100-BA is a 1,000 card database extension from the initial 1,000 cards that is included in the Standard License, up to a maximum of 10,000 cards. For more than 10,000 cards, “Microsoft SQL Server” database is required (SQL server is not included in the software CD and has to be purchased separately).	**6FL7820-8AD10**
ASE5100-DO	**Database extension license for 8 doors** The ASE5100-DO is a 8 door database extension from the initial 24 doors included in the Standard License, up to a maximum of 1,024 doors.	**6FL7820-8AD20**
ASE5100-WS	**Additional workstation license** The ASE5100-WS is a single workstation extension from the initial 1 workstation included in the Standard License, up to a maximum of 5 workstations. For more than 5 workstations, “Microsoft SQL Server” database is required (SQL server is not included in the software CD and has to be purchased separately).	**6FL7820-8AE00**
ASE5300-CW	**CCTV Capability on a SiPass Workstation license** The ASE5300-CW allows the user to control various CCTV components, such as Siemens SIMATRIX 164, 648, SYS matrix switching systems. The settings and configurations for cameras and monitors are directly made from the SiPass software. and image sequences are displayed in the SiPass user interface. Using the event control function, camera sequences can be programmed, which are then started automatically with a specific system event.	**6FL7820-8AE01**
ASE5300-ID	**Photo-ID and image verification license** The ASE5300-ID Photo ID & Image Verification software enables the system to quickly and easily capture cardholder photographs and print a personalised access card that includes the photo for each cardholder. This ability to combine cardholder photographs with their access and personal information will strengthen any security system. Within minutes it is possible to construct a custom designed card template, complete with company logo, photograph and signature, plus any eye catching graphics that may be required.	**6FL7820-8AE02**
ASE5300-MF	**Message forwarding license** Providing security around the clock is a challenge for every facility. The high cost of employing security guards overnight is prohibitive, but the risks of potential security breaches when the site is unmanned are huge. SiPass's Message Forwarding option solves this problem. The ASE5300-MF messaging software allows the system to automatically send custom text messages to pagers*, mobile telephones* or by email. Using the latest telecommunication technology, it is possible to notify key personnel, who may otherwise be absent from a premises, when security has been breached. This allows a timely and appropriate response to any alarm situation. ASE5300-MF software can also forward alarms and messages to other SiPass Servers central controlling software, residing on the same LAN/WAN - if a business with SiPass is not manned, alarms can be automatically forwarded to a location with security operators who are monitoring SiPass based activity. *ask for compatibility with your service provider	**6FL7820-8AE03**

©2006 Siemens Building Technologies — Data subject to change without notice

Type	Description / Technical data	Order No.
ASE5300-AP	**HR Application programming interface (API) license** The communication with other applications is an essential feature in modern access control systems. SiPass offers the possibility to set up a customised interface to other applications. The SiPass HR Application Programming Interface (API) allows SiPass cardholder and access control data to be accessed and modified using a third party application, such as a Human Resources system or a web browser.	**6FL7820-8AE04**
ASE5300-VM	**Visitor management license** The modern office building is a complex affair. Personnel are often a mixture of permanent, contract and casual employees, each with different access requirements. If you add visitors, who can stay for periods ranging from a few hours to a few months, your cardholder management system can quickly become overloaded with information on both permanent and non-permanent cardholders. This might lead to confusion and inefficiencies in searching for records. SiPass addresses these problems and more with the SiPass Visitor Management option. With a unique User Interface dedicated to capturing visitor details, visitor management graphically separates collecting visitor information while offering exactly the same card encoding, access control and imaging features available to normal SiPass cardholders. Combined with an extensive Reporting facility for Visitor transactions and custom data pages that can be created exclusively for visitor records, SiPass now represents one of the most flexible and comprehensive cardholder management systems on the market today.	**6FL7820-8AE05**
ASE5300-LE	**Low level elevator management license** Elevator systems pose a unique challenge to a secure facility. The access control system must simultaneously provide a clean interface to both the Elevator Management System (EMS) and the security operator for effective access control to floors. With the SiPass Low Level Interface, the SiPass Advanced Central Controller operates as the Elevator Controller. Output Point Modules operate as the hardware interface, handling access at up to 16 floors per unit, and providing Fire Over-Ride (FOR) notification. Configuring Access Control for an elevator system is a completely transparent process. SiPass simply extends the same concepts governing door access to floors, using a consistent and intuitive Graphical User Interface.	**6FL7820-8AE06**
ASE5300-GT	**Guard tour license** Protecting your facility and those that occupy it is critical. Electrical equipment provides superior surveillance, but if unseen by intruders is not a good deterrent. Guards provide a highly visual security component, and if used correctly provide an excellent intrusion deterrent. SiPass Guard Tour conveniently integrates your access control and security network with a state-of-the-art electronic patrol verification system. Guard tour uses the same infrastructure as the SiPass access system, be it card readers, biometric readers, or any other access or input device. Therefore, there is no need to install additional equipment to monitor guard patrols, since it's already in place. In addition, a guard can be tracked as they patrol your site. The same device used to indicate their position in a tour is also used to unlock doors and turn on alarm systems. This enables guards to generate real-time duress alarms, without arousing suspicion. Guard Tour's advanced functionality allows you to customise tours, assign guards to specific or random tours, impose time constraints, and generate alarms when tour conditions have been breached.	**6FL7820-8AE09**

©2006 Siemens Building Technologies — Data subject to change without notice

Type	Description / Technical data	Order No.
ASE5300-GP	**Graphics license** The operation of an access control and security application should be as easy and uncomplicated as possible. By providing security operators with a method of visually monitoring the status of a room, a building or an entire facility and the ability to perform routine tasks with a single click of the mouse button, it is ensured that security conditions can be dealt with efficiently. SiPass provides this efficiency through its advanced graphics option.	**6FL7820-8AE17**
ASE5300-ME	**Mifare encoding license** Plastic ID cards are not only used for access control exclusively but also for other applications. By using the SiPass Mifare encoding option, access control cards with Mifare technology, such as ABP5100 can also be reprogrammed for many other applications, such as using the card as a cashless payment for goods or food inside companies, or on a student campus etc.	**6FL7820-8AE20**
ASE5300-DV	**Digital video recorder (DVR) 3rd party interface license** The ASE5300-DV software allows the user to control and view live or recorded images from multiple digital video recording (DVR) units connected to the same network as SiPass. It is possible to completely manage the recording and playback features of other manufacturer's DVR systems with this software. Combined with SiPass's event and alarm handling functionality, it is possible to trigger immediate recording from DVR cameras in response to alarms or any other system event Supported DVRs: Dedicated Micros - Digital Sprite 2 Kodicom Diginet D4416 Kodicom Diginet D44216 Kodicom Diginet D4408M Kodicom Diginet D4404M	**6FL7820-8AE21**
ASE5300-TR	**Time recording export license** The ASE5300-TR time recording export software allows advanced time-handling of employees with access cards. It is possible to use the system to register when employees arrive for work and leave at the end of the day, then have this data exported to an external file. This file could then be used for time keeping records, or payroll systems.	**6FL7820-8AE22**
ASE5300-TE	**Additional Site/Facility Code license** Siemens card readers are best used in combination with SiPass software, as they do not require any Site or Facility Code. This is not the case for some 3rd party readers*, which then requires this license for each Site or Facility code. * please contact your SiPass supplier for further information.	**6FL7820-8AE24**

accessories

ACK5100	**Parameterization cable for AC5100 advanced central controller** This cable is used to create a serial connection between the PC and the AC5100 advanced central controller for configuration. Connectors: 1 x RJ45 1 x DB9 (male)	**6FL7820-8FB10**

©2006 Siemens Building Technologies — Data subject to change without notice

SIEMENS

SiPass biometric

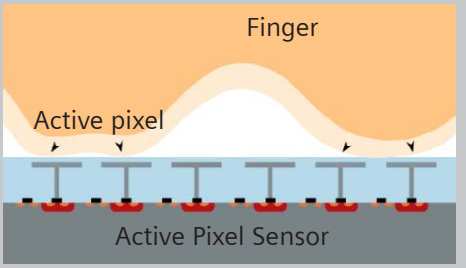
finger tip readers...

The finger tip reader is intended for higher security access control applications

1

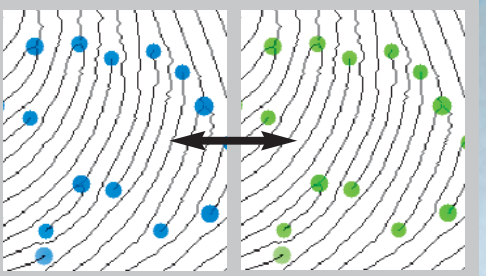
The user places the finger tip on the Siemens Infineon sensor

2



The infineon sensor is equipped with a silicon-wafer with active pixels

3



The finger tip print of the user is compared with stored finger tip data

4

Authorised person
> OK

Valid location
> OK

Time
> OK

If desired, PIN-code
> OK

5

Person is identified and has access

Entrance is granted

... for higher security access control applications

Type	Description / Technical data	Order No.

kits

AKB8120

Finger tip reader kit

6FL7173-8KA

The AKB8120 finger tip reader kit contains a reader, biometrics software and accessories for installation and configuration, suitable for use in combination with «SiPass networked» or «SiPass integrated» systems. The fingertip reader, is intended for higher security access control applications, and can be used either in identification mode - where the user is identified by fingerprint data only, or in a verification mode - where a PIN-code has to be entered as reference for the stored template to be compared with the actual fingerprint.

Kit includes	1 x Fingertip reader with keypad 1 x BIO FTM Software 1 x RS232 cable

Finger Tip Reader AR6332-BI:

Operating voltage	9 ~ 15 VDC
Current consumption	100 mA (approx.)
Protection rating	IP 54 (for indoor use only)
Dimensions (W x H x D)	48 x 147 x 30 mm
Housing	PC/ABS plastic
Colour	Silver (RAL9006)
Relative humidity	95% non condensing
ESD protection	8kV air discharge on sensor
False acceptance rate	$<10^{-5}$ (practical value)
False rejection rate	$<5 \times 10^{-3}$ (practical value)
Operation mode	Verification (PIN + Fingerprint) Identification (Fingerprint only)
Keypad	Keys 0-9, C, E
Storage	1 ~ 10 fingerprints per person 450 fingerprints in total
Indicators	2 x LEDs (yellow, red/green) 1 x Buzzer
Interface to controller	RS485
Additional interfaces	RS232 for template download
Approval	CE

Software BIO FTM:

- Password protected operation
- Logbook for transaction logging
- Identification or verification with PIN
- Mobile station functionality
- Fingerprint download via serial or LAN (LAN box required)
- Data encryption on LAN

©2006 Siemens Building Technologies — Data subject to change without notice

Type	Description / Technical data	Order No.

communication modules

ANC1616-B **RS232/LAN Converter** **6FL7023-8AA**

The ANC1616-B converter enables the connection of the Fingertip reader AR6332-BI, that is also included in the fingertip reader starter kit AKB8120, to a TCP/IP Ethernet network. This enables the management of the finger templates over a TCP/IP Ethernet network, to up and download settings.

Approval CE

Additional components required
for fingerprint connection:
AAB8030 4-wire cable with 25 pin Connector

accessories

AAB8030 **4-wire cable with 25 pin connector** **6FL7173-8BC**

The AAB8030 cable is required for the connection of the Fingertip reader AR6332-BI, that is also included in the fingertip reader starter kit AKB8120, to the ANC1616-B RS232/LAN converter.

©2006 Siemens Building Technologies — Data subject to change without notice

SIEMENS

Mullion
finger tip reader

Our SiPass readers...

...protect your property against unauthorised access

Mullion reader for
125kHz technology

Single door reader

Square reader for 125 kHz and
13.56 MHz technology

readers overview

	ACS3110	AR6181 -RX	AR6182 -RX	AR6331 -CP	AR6332 -CP	AR6181 -MX	AR6182 -MX	AR6332 -BI
Card technology	125 kHz	125 kHz	125 kHz	125 kHz	125 kHz	13.56 MHz	13.56 MHz	
Proximity reader	●	●	●	●	●	●	●	
Programming via ConfigCard						●	●	
Mifare card compatible						●	●	
SiPass card compatible	●	●	●	●	●			
SiPass key tag compatible	●	●	●	●	●			
Finger tip reader								●
Card read distance (approx.)	5 cm	7 cm	7 cm	7 cm	7 cm	7 cm	7 cm	
Installation	Indoor / Outdoor	Indoor / Outdoor	Indoor / Outdoor	Indoor / Outdoor	Indoor / Outdoor	Indoor / Outdoor	Indoor / Outdoor	Indoor
Protection rating	IP 65	IP 65	IP 65	IP 65	IP 65	IP 65	IP 65	IP 54
Colour	Black	Silver	Silver	Silver	Silver	Silver	Silver	Silver
Approval CE	●	●	●	●	●	●	●	●
Approval FCC		●	●			●	●	
RS485 interface	●	●	●	●	●	●	●	●
Wiegand interface		●	●			●	●	
Keypad			●		●		●	●
PIN code			●		●		●	●
Dimensions (W x H x D)	41 x 68 x 15	85.5 x 91 x 23	85.5 x 91 x 23	48 x 147 x 30	48 x 147 x 30	85.5 x 91 x 23	85.5 x 91 x 23	48 x 147 x 30
Flush wall mount (standard)	●	●	●	●	●	●	●	●
15° wall mount bracket (optional)								

©2006 Siemens Building Technologies — Data subject to change without notice

Type	Description / Technical data	Order No.

standalone

ACS3110

Single door reader

GBQ:506504

The ACS3110 is a Single Door Reader used for expanding or replacing readers in the system without purchasing a complete AKS3110 single door kit.

Card technology	125 kHz
Card read distance	5 cm (approx.)
Number of cards/key tags	500 in total for the system
Bus operation	RS485 with SiPass reader protocol up to 1000 m
Buzzer	Read badge / Read Master / Error
Door latch relay output	Potential free, 30 VDC, 1 A
Night mode input	Switch clock or key switch
Alarm outputs	1 x night operation (open collector 24 VDC, 50 mA 1 x tamper (open collector 24 VDC, 50 mA)
Operating voltage	5 ~ 15 VDC (PSU not included)
Current consumption	20 ~ 50 mA (without door latch)
Cable	AWG26, 14 wires, 3 m
Operating temperature	-15 ~ +50 °C
Protection rating	IP 65
Dimensions (W x H x D)	41 x 68 x 15 mm
Colour	Black
Approval	CE
Additional components required for operation:	12 VDC power supply (see 2GF1800-8BE) Electrical lock Optional request-to-exit button

Note: The standalone reader ACS3110 requires the programming device AAP3110 for commissioning.

Optional component:	AAP3110 Programming device for ACS3110 reader

proximity / vicinity 13.56 MHz

AR6181-MX

Multi-technology reader without keypad

6FL7170-8BK

The AR6181-MX proximity/vicinity reader is designed for access control applications using ISO14443-A, ISO14443-B and ISO15693 standard. It reads either the unique serial number or, for example, the personalised ID-number of Mifare, my-C or my-D cards. The reader offers a remote firmware download. Configuring is supported by remote programming or a ConfigCard. It can be connected to the Dual Reader Controller of «SiPass networked» or «SiPass integrated».

Card technology	13.56 MHz
Card read distance	7 cm (approx.)
Operating voltage	12 ~ 24 VDC/AC (±15%)
Power consumption	Max. 3 W
Operating temperature	-20 ~ +60° C
Protection rating	IP 65
Indicators	1 x LED (red/green/orange) 1 x Buzzer
Interface to controller	RS485 monitored CerPass protocol Clock/Data or Omron/Wiegand
Configuration	Via RS485 interface or ConfigCard
Dimensions (W x H x D)	85.5 x 91 x 40 mm (with frame) 85.5 x 91 x 23 mm (without frame)
Housing	PC / ABS plastic
Colour	Silver (RAL9006)
Approval	CE, FCC

©2006 Siemens Building Technologies — Data subject to change without notice

card readers

Type	Description / Technical data	Order No.
AR6182-MX	**Multi-technology reader with keypad** As AR6181-MX for technical details, but with keypad: Keypad: Membrane keyboard, Keys 0-9,C,E	**6FL7170-8BL**

proximity 125 kHz

Type	Description / Technical data	Order No.
AR6181-RX	**Miro/Hitag serial reader** The AR6181-RX proximity card reader is designed for access control applications using standard Miro, SiPass, Hitag1 and Hitag2 proximity cards, to read the unique card number. Furthermore, the personalised ID-number of the Hitag 1 and Hitag 2 cards can be read by this reader. The AR6181-RX reader can be connected to the Dual Reader Controller of «SiPass networked» or the Dual Reader Interface module of «SiPass integrated».	**6FL7170-8AD**

Card technology	125 kHz
Range	7 cm (approx.)
Operating voltage	12 ~ 24 VDC
Current consumption	120 mA (approx.)
Operating temperature	-25 ~ +70 °C
Protection rating	IP 65
Indicators	1 x LED (yellow, green ,red) 1 x buzzer
Interface to controller	RS485 monitored CerPass protocol Clock/Data or Omron/Wiegand
Dimensions (W x H x D)	
Without distance frame	85.5 x 91 x 23 mm
With distance frame	85.5 x 91 x 40 mm
Housing	PC / ABS plastic
Colour	Silver (RAL9006)
Approval	CE, FCC

©2006 Siemens Building Technologies — Data subject to change without notice

Type	Description / Technical data	Order No.	
AR6182-RX	**Miro/Hitag reader with keypad** As AR6182-RX but with keypad: Keypad: Membrane keyboard Keys 0-9,C,E	**6FL7170-8AE**	
AR6331-CP	**SiPass serial reader without keypad** The AR6331-CP proximity reader is part of the Mullion series in the awarded access reader design. The readers are designed for access control applications using standard SiPass proximity cards to read the unique card number. The AR6331-CP reader can be connected to the Dual Reader Controller of «SiPass networked» or the Dual Reader Interface module of «SiPass integrated». Card technology: 125 kHz Range: 7 cm (approx.) Operating voltage: 12 VDC (±20%) Current consumption: 80 mA (approx.) Operating temperature: -10 ~ +55 °C Protection rating: IP 65 Indicators: 3 x LED (yellow, green, red), 1 x Buzzer Interface to controller: RS485 monitored CerPass protocol Dimensions (W x H x D): 48 x 147 x 30 mm Housing: PC / ABS plastic Colour: Silver (RAL9006) Approval: CE	**6FL7171-8AD**	
AR6332-CP	**SiPass serial reader with keypad** As AR6331-CP but with keypad: Keypad (AR6332-CP): Membrane keypad Keys: 0-9,C,E	**6FL7171-8AE**	

©2006 Siemens Building Technologies — Data subject to change without notice

card readers

Type	Description / Technical data	Order No.

biometrics

AR6332-BI

Finger tip reader

6FL7173-8AA

This is a finger tip reader that is required when you want to add or replace such a reader in your installation without purchasing a complete finger tip reader kit, AKB8120.

The fingertip reader, which is intended for Access Control applications, can be used in two modes. Either as an identification mode where the user is identified by fingerprint data only or in a verification mode where a PIN-code has to be entered as reference for the stored template to be compared with the actual fingerprint.

Finger Tip Reader AR6332-BI:

Operating voltage	9 ~ 15 VDC
Current consumption	100 mA (approx.)
Protection rating	IP 54 (for indoor use only)
Dimensions (H x W x D)	48 x 147 x 30 mm
Housing	PC/ABS plastic
Colour	Silver (RAL9006)
Relative Humidity	95% non condensing
ESD protection	8kV air discharge on sensor
False Acceptance Rate	$<10^{-5}$ (practical value)
False Rejection Rate	$<5 \times 10^{-3}$ (practical value)
Operation mode	Verification (PIN+Fingerprint) Identification (Fingerprint only)
Keypad	Keys 0-9, C, E
Storage	1 ~ 10 fingerprints per person 450 fingerprints in total
Indicators	2 x LEDs (yellow, red/green) 1 x Buzzer
Interface to controller	RS485
Additional interfaces	RS232 for template download
Approval	CE

accessories

AAP3110

Programming device for ACS3110

GBQ:506517

This keypad has to be used for deleting card numbers for lost cards in a single door reader. It is also used to configure a single door reader for use with «SiPass standalone» or «SiPass integrated».

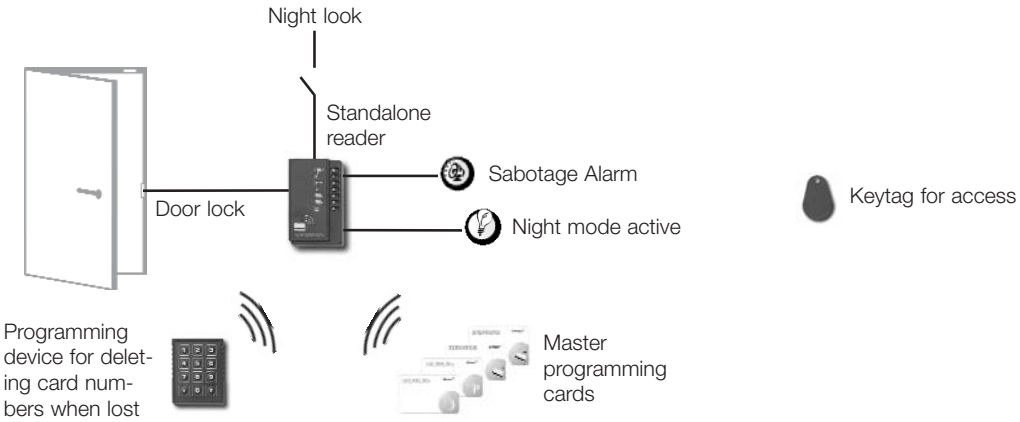
©2006 Siemens Building Technologies — Data subject to change without notice

Type	Description / Technical data	Order No.	
	proximity / vicinity 13.56 MHz		
ABP5100-PR	**Pre-printed Mifare card x 10** Pre-printed standard ISO14443A cards with Access Control logo to be used with readers AR618X-MX and AR6473-MT	**6FL7820-8KB10**	
ABP5100-BL	**Printable Mifare card x 10** Blank ISO14443A cards to be used with readers AR618X-MX and AR6473-MT. A customised print can be added on the cards.	**6FL7820-8KB20**	
	proximity 125 kHz		
ABR5100-PR	**Pre-printed SiPass card x 10** Pre-printed standard ISO cards with Access Control logo to be used with readers ACS3110, AR633X-CP, AR618X-RX and AR6473-RX.	**6FL7820-8KA10**	
ABR5100-BL	**Printable SiPass card x 10** Blank ISO cards to be used with readers ACS3110, AR633X-CP, AR618X-RX and AR6473-RX. A customised print can be added on the cards.	**6FL7820-8KA20**	
ABR5100-TG	**SiPass Proximity Key Tag x 10** These key tags are to be used with readers ACS3110, AR633X-CP, AR618X-RX and AR6473-RX. The key tags have the same functionality as the proximity cards, but are smaller in size and can easily be attached to a key ring which increases the convenience for the user.	**6FL7820-8KA30**	

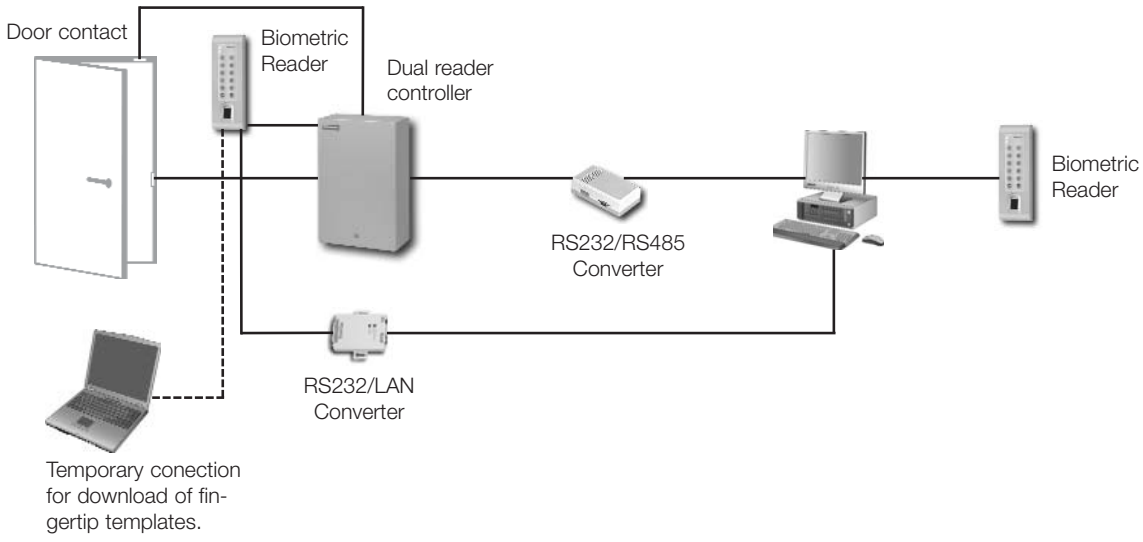
©2006 Siemens Building Technologies — Data subject to change without notice

system diagrams

«SiPass standalone» overview

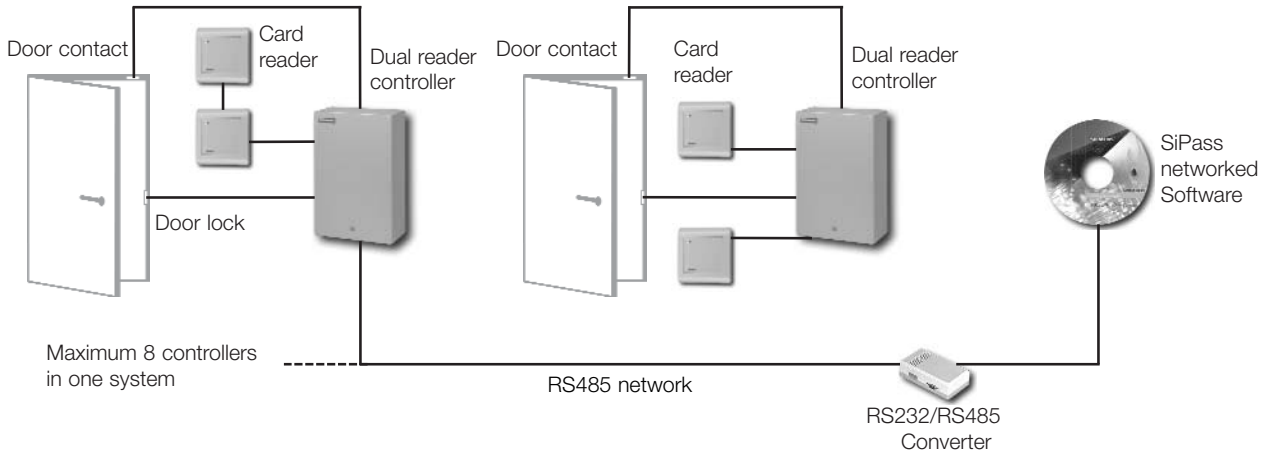


«SiPass networked» one door mode with finger tip reader

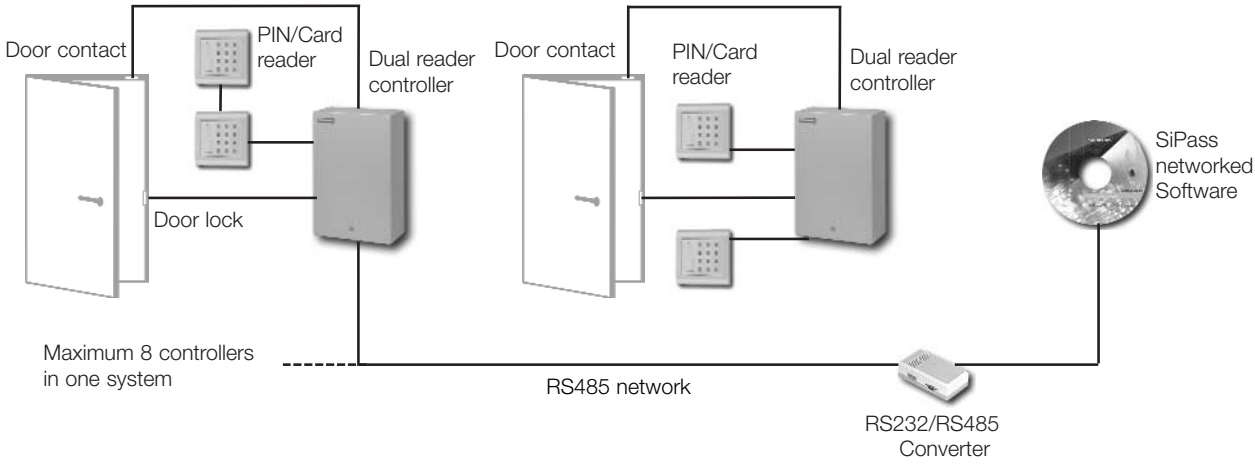


©2006 Siemens Building Technologies — Data subject to change without notice

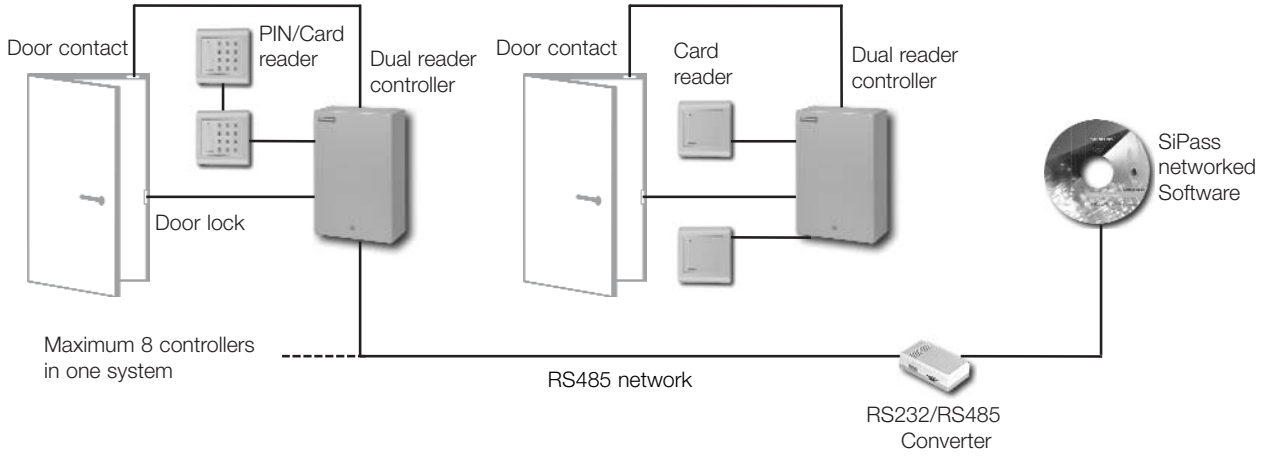
«SiPass networked» one door mode with and without keypads



«SiPass networked» one door mode with and without keypads



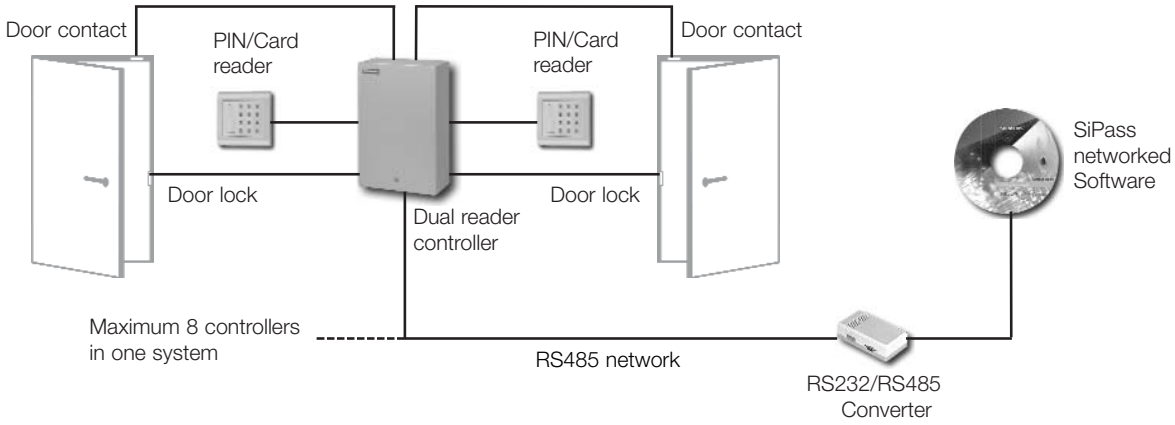
«SiPass networked» one door mode with and without keypads



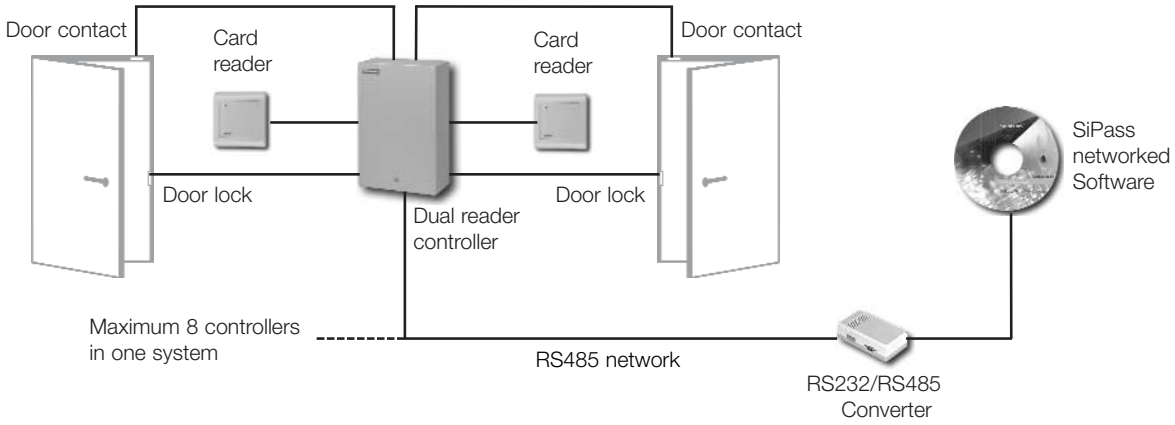
©2006 Siemens Building Technologies — Data subject to change without notice

system diagrams

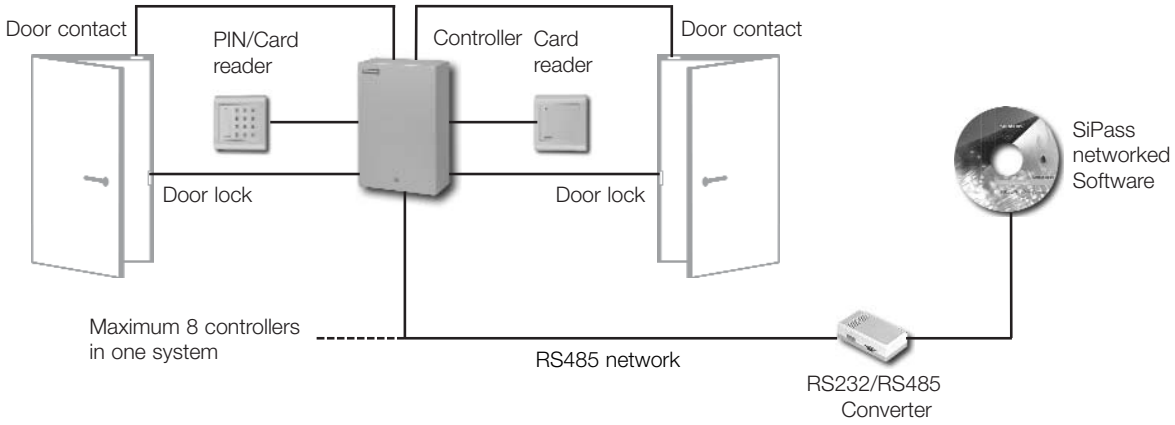
«SiPass networked» two door mode with keypad



«SiPass networked» two door mode without keypads

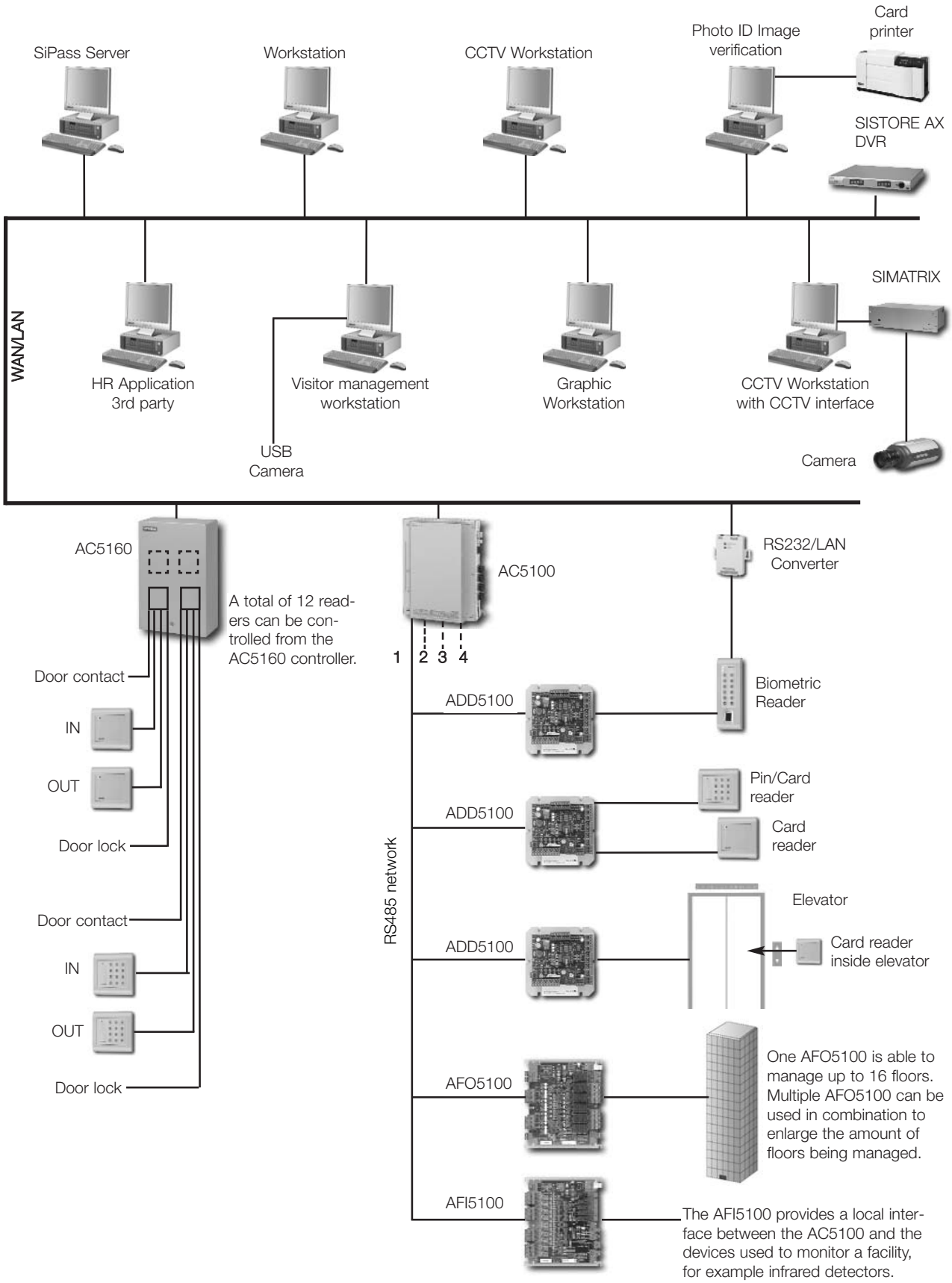


«SiPass networked» two door mode with and without keypads



©2006 Siemens Building Technologies — Data subject to change without notice

«SiPass integrated» system overview



©2006 Siemens Building Technologies — Data subject to change without notice

index

Type	Description / Technical data	Order No.	Page
AAB8030	4-wire cable with 25 pin connector	6FL7173-8BC	22
AAC3031	RS232/RS485 Converter	6FL7820-8GA01	9
AAP3110	Programming device for ACS3110	GBQ:506517	28
ABP5100-BL	Printable Mifare card x 10	6FL7820-8KB20	29
ABP5100-PR	Pre-printed Mifare card x 10	6FL7820-8KB10	29
ABR5100-BL	Printable SiPass card x 10	6FL7820-8KA20	29
ABR5100-PR	Pre-printed SiPass card x 10	6FL7820-8KA10	29
ABR5100-TG	SiPass Proximity Key Tag x 10	6FL7820-8KA30	29
AC5100	Advanced central controller, 24 Vdc	6FL7820-8BA10	11
AC5160	Integrated controller kit	6FL7820-8BA16	11
ACK5100	Parameterization cable for AC5100 advanced central controller	6FL7820-8FB10	19
ACS3110	Single door reader	GBQ:506504	25
ADD5100	Dual reader interface including base plate, 24 Vdc	6FL7820-8CA10	12
ADD5160	Dual reader interface module in weatherproof housing	6FL7820-8CA16	12
AFI5100	Input point module including base plate, 12/24 Vdc	6FL7820-8CB10	13
AFO5100	Output point module including base plate, 12/24 Vdc	6FL7820-8CC10	14
AKB8120	Finger tip reader kit	6FL7173-8KA	21
AKN4110-CP	Dual reader controller starter kit with 2 readers without keypad	6FL7048-8BA0	24
AKN4110-MX	Dual reader controller starter kit with 2 readers without keypad	6FL7048-8EA0	26
AKN4120-CP	Dual reader controller starter kit with 2 readers with keypad	6FL7048-8BC02	5
AKN4200	Dual reader controller extension kit without reader	6FL7048-8FA02	8
AKN4210-CP	Dual reader controller extension kit with 2 readers w/o keypad	6FL7048-8BB00	5
AKN4210-MX	Dual reader controller extension kit with 2 readers w/o keypad	6FL7048-8EB00	7
AKN4220-CP	Dual Reader Controller Extension Kit with 2 readers with keypad	6FL7048-8BD00	5
AKN4220-MX	Dual reader controller extension kit with 2 readers with keypad	6FL7048-8ED00	7
AKS3110	Single door kit	6FL7048-8CB10	1
ANC1616-B	RS232/LAN Converter	6FL7023-8AA	22
AR6181-MX	Multi-technology reader without keypad	6FL7170-8BK	25
AR6181-RX	Miro/Hitag serial reader	6FL7170-8AD	26
AR6182-MX	Multi-technology reader with keypad	6FL7170-8BL	26
AR6182-RX	Miro/Hitag reader with keypad	6FL7170-8AE	27
AR6331-CP	SiPass serial reader without keypad	6FL7171-8AD	27
AR6332-BI	Finger tip reader	6FL7173-8AA	28
AR6332-CP	SiPass serial reader with keypad	6FL7171-8AE	27
ASB5000-DE	SiPass integrated software CD (German)	6FL7820-8FD11	16
ASB5000-EN	SiPass integrated software CD (English)	6FL7820-8FD10	16
ASB5000-ES	SiPass integrated software CD (Spanish)	6FL7820-8FD14	16
ASB5000-FR	SiPass integrated software CD (French)	6FL7820-8FD12	16
ASB5000-NL	SiPass integrated software CD (Dutch)	6FL7820-8FD13	16
ASB5000-PL	SiPass integrated software CD (Polish)	6FL7820-8FD15	16
ASE5100-BA	Database extension license for 1000 cards	6FL7820-8AD10	17
ASE5100-DO	Database extension license for 8 doors	6FL7820-8AD20	17
ASE5100-WS	Additional workstation license	6FL7820-8AE00	17
ASE5300-AP	HR Application programming interface (API) license	6FL7820-8AE04	18
ASE5300-CW	CCTV Capability on a SiPass Workstation license	6FL7820-8AE01	17
ASE5300-DV	Digital video recorder (DVR) 3rd party interface license	6FL7820-8AE21	19
ASE5300-GP	Graphics license	6FL7820-8AE17	19
ASE5300-GT	Guard tour license	6FL7820-8AE09	18
ASE5300-ID	Photo-ID and image verification license	6FL7820-8AE02	17
ASE5300-LE	Low level elevator management license	6FL7820-8AE06	18
ASE5300-ME	Mifare encoding license	6FL7820-8AE20	19
ASE5300-MF	Message forwarding license	6FL7820-8AE03	17
ASE5300-TE	Additional Site/Facility Code license	6FL7820-8AE24	19
ASE5300-TR	Time recording export license	6FL7820-8AE22	19
ASE5300-VM	Visitor management license	6FL7820-8AE05	18
ASL5000-SE	SiPass software standard edition license	6FL7820-8AA10	15

©2006 Siemens Building Technologies — Data subject to change without notice

SIEMENS

SiPass software...

The SiPass software interfaces with the latest Windows XP standard, which ensures efficient operation. The interfaces offer easy navigation through data, which is easy to maintain.

Among the features of SiPass networked and integrated:

- Anti-passback
- CCTV integration
- Time scheduling
- Programmable holidays
- Individual / group cardholder access
- Real-time event and message login
- Simple colour coded audit trail log
- Full system archiving and restore

SIEMENS

...easy to install and simple to administer via the comfortable user interface

Siemens Switzerland Ltd
Building Technologies Group
International Headquarters
Gubelstrasse 22
6301 Zug
Switzerland
Tel. +41 41 724 24 24
Fax +41 41 724 35 22
www.sbt.siemens.com

Building Technologies

Subject to change without notice • Order no. A24205-A335-B252 • Ver.1.3
© Siemens Switzerland Ltd.

The information in this document contains general description of the technical options available, which do not always have to be present in the individual cases. The required features should therefore be specified in each individual case at the time of closing the contract.